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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [Query evaluation techniques for large databases](#)

Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

 Full text available: [pdf\(9.37 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

### 3 [External memory algorithms and data structures: dealing with](#)

# massive data

Jeffrey Scott Vitter

10/053, 442



June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available:  pdf(828.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

#### 4 EXPRESS: a data EXtraction, Processing, and Restructuring System

N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum

June 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2

Full text available:  pdf(2.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

**Keywords:** data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

#### 5 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

#### 6 Join processing in relational databases

Priti Mishra, Margaret H. Eich

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available:  pdf(4.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The join operation is one of the fundamental relational database query operations. It facilitates the retrieval of information from two different relations based on a Cartesian product of the two relations. The join is one of the most difficult operations to implement efficiently, as no predefined links between relations are required to exist (as they are with




network and hierarchical systems). The join is the only relational algebra operation that allows the combining of related tuples fro ...

**Keywords:** database machines, distributed processing, join, parallel processing, relational algebra

7 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)  
 html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:  pdf(6.15 MB)   
[Publisher Site](#)

Additional Information: [full citation](#)

9 EAS-E: an integrated approach to application development

A. Malhotra, H. M. Markowitz, D. P. Pazel

December 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 4

Full text available:  pdf(2.26 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EAS-E (pronounced EASY) is an experimental programming language integrated with a database management system now running on VM/370 at the IBM Thomas J. Watson Research Center. The EAS-E programming language is built around the entity, attribute, and set (EAS) view of application development. It provides a means for translating operations on EAS structures directly into executable code. EAS-E commands have an English-like syntax, and thus EAS-E programs are ...

**Keywords:** entity relationship model

10 Are quorums an alternative for data replication?

Ricardo Jiménez-Peris, M. Patiño-Martínez, Gustavo Alonso, Bettina Kemme

September 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 3

Full text available:  pdf(2.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data replication is playing an increasingly important role in the design of parallel information systems. In particular, the widespread use of cluster architectures often requires to replicate data for performance and availability reasons. However, maintaining the consistency of the different replicas is known to cause severe scalability problems. To address this limitation, quorums are often suggested as a way to reduce the overall overhead of replication. In this article, we analyze several qu ...


**Keywords:** Data replication, availability, distributed transactions., quorums, scalability

11 From text to hypertext by indexing

Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan



January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available:  pdf(1.98 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

**Keywords:** constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs

## 12 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  pdf(7.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

## 13 Proximal nodes: a model to query document databases by content and structure

Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available:  pdf(550.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

**Keywords:** expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

## 14 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs in M del curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  pdf(7.24 MB)


Additional Information: [full citation](#), [citations](#)

## 15 Interactive Editing Systems: Part II



Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



16 Database Reorganization—Principles and Practice

Gary H. Sockut, Robert P. Goldberg

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Full text available:  pdf(1.89 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



17 Data conversion and restructuring: An Access Path Specification Language for restructuring network databases

Donald Swartwout

August 1977 **Proceedings of the 1977 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Access Path Specification Language (APSL) is a high-level essentially nonprocedural language for specifying restructuring transformations of network databases. It does so in terms of application-oriented concepts such as access strategies and selection criteria. APSL's approach to restructuring emphasizes description of the source *structures* from which target data is to be retrieved, rather than the *operations* needed to convert source constructs to target constructs. The latter ...

**Keywords:** data translation, data translation language, data translation software, database restructuring, network databases, network restructuring, restructuring languages, restructuring software, translation specification languages



18 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  pdf(636.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords:** cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning



19 A logical framework for reasoning about access control models

Elisa Bertino, Barbara Catania, Elena Ferrari, Paolo Perlasca

February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1

Full text available:  pdf(450.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The increased awareness of the importance of data protection has made access control a






relevant component of current data management systems. Moreover, emerging applications and data models call for flexible and expressive access control models. This has led to an extensive research activity that has resulted in the definition of a variety of access control models that differ greatly with respect to the access control policies they support. Thus, the need arises for developing tools for reasoning ...

**Keywords:** Access control framework, access control models analysis, logic programming

## 20 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available:  pdf(8.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

**Keywords:** Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

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☐ Check to search within this result set
**Results Key:****JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard**1 Access to indexed hierarchical databases using a relational query language***Chung, C.-W.; McCloskey, K.E.;*

Knowledge and Data Engineering, IEEE Transactions on , Volume: 5 , Issue: 1 , Feb. 1993

Pages:155 - 161

[\[Abstract\]](#)   [\[PDF Full-Text \(624 KB\)\]](#)   **IEEE JNL**
**2 Processing hierarchical queries in heterogeneous environment***Weiyi Meng; Yu, C.; Won Kim;*

Data Engineering, 1992. Proceedings. Eighth International Conference on , 2-4 Feb. 1992

Pages:394 - 401

[\[Abstract\]](#)   [\[PDF Full-Text \(676 KB\)\]](#)   **IEEE CNF**
**3 Dynamic hierarchical database architecture for location management in PCS networks***Ho, J.S.M.; Akyildiz, I.F.;*

Networking, IEEE/ACM Transactions on , Volume: 5 , Issue: 5 , Oct. 1997

Pages:646 - 660

[\[Abstract\]](#)   [\[PDF Full-Text \(292 KB\)\]](#)   **IEEE JNL**
**4 A relational query language interface to a hierarchical database management system***Ching, C.-W.; McCloskey, K.E.;*

Data and Knowledge Systems for Manufacturing and Engineering, 1989., Second International Conference on , 16-18 Oct. 1989

10/053442



Pages:105 - 112

[\[Abstract\]](#) [\[PDF Full-Text \(472 KB\)\]](#) IEEE CNF

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**5 Service provisioning data relationship model for ISDN network maintenance**

*King, N.J.;*

Selected Areas in Communications, IEEE Journal on , Volume: 6 , Issue: 4 , March 1988

Pages:727 - 731

[\[Abstract\]](#) [\[PDF Full-Text \(480 KB\)\]](#) IEEE JNL

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**6 XML hierarchical database for missions and technologies**

*Some, R.R.; Czikmantory, A.; Neff, J.; Marshall, M.;*

Aerospace Conference, 2004. Proceedings. 2004 IEEE , Volume: 1 , 6-13 March 2004

Pages: 303 Vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(971 KB\)\]](#) IEEE CNF

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**7 User mobility management in PCS network: hierarchical databases and their placement**

*Hac, A.; Chengdi Sheng;*

Universal Personal Communications, 1996. Record., 1996 5th IEEE International Conference on , Volume: 2 , 29 Sept.-2 Oct. 1996

Pages:847 - 851 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) IEEE CNF

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**8 Mobility database overflow control in 3G cellular networks**

*Yang Xiao;*

Global Telecommunications Conference, 2002. GLOBECOM '02. IEEE , Volume 2 , 17-21 Nov. 2002

Pages:1718 - 1722 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(396 KB\)\]](#) IEEE CNF

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**9 Scalable data fusion using Astrolabe**

*Birman, K.P.; van Renesse, R.; Vogels, W.;*

Information Fusion, 2002. Proceedings of the Fifth International Conference on , Volume: 2 , 8-11 July 2002

Pages:1434 - 1441 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(677 KB\)\]](#) IEEE CNF

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**10 An H.323 gatekeeper prototype: design, implementation, and performance analysis**

*Cheng-Yue Chang; Ming-Syan Chen; Pai-Han Huang;*

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 6 , Dec. 2004

Pages:936 - 946

[\[Abstract\]](#) [\[PDF Full-Text \(528 KB\)\]](#) IEEE JNL

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11 **A theory of translation from relational queries to hierarchical queries**  
*Weiyi Meng; Yu, C.; Won Kim;*  
Knowledge and Data Engineering, IEEE Transactions on , Volume: 7 , Issue: 2 , April 1995  
Pages:228 - 245

[\[Abstract\]](#) [\[PDF Full-Text \(1680 KB\)\]](#) IEEE JNL

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12 **Confronting database complexities**  
*Yu, C.; Weiyi Meng;*  
Software, IEEE , Volume: 11 , Issue: 3 , May 1994  
Pages:6 - 10

[\[Abstract\]](#) [\[PDF Full-Text \(676 KB\)\]](#) IEEE JNL

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13 **Example-based graphical database query languages**  
*Ozsoyoglu, G.; Wang, H.;*  
Computer , Volume: 26 , Issue: 5 , May 1993  
Pages:25 - 38

[\[Abstract\]](#) [\[PDF Full-Text \(1168 KB\)\]](#) IEEE JNL

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14 **Eigen-model based 3D model recognition from cylindrical mapped image**  
*Shiyu Li; Khan, I.R.; Okuda, M.; Yamazaki, Y.; Takahashi, S.;*  
Communications, Circuits and Systems, 2004. ICCCAS 2004. 2004 International Conference on , Volume: 2 , 27-29 June 2004  
Pages:979 - 983 Vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(372 KB\)\]](#) IEEE CNF

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15 **Virtual bus architecture for hierarchical cellular systems**  
*Le Bodic, G.; Girma, D.; Irvine, J.; Dunlop, J.;*  
Personal, Indoor and Mobile Radio Communications, 2000. PIMRC 2000. The 1 IEEE International Symposium on , Volume: 2 , 18-21 Sept. 2000  
Pages:861 - 865 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(464 KB\)\]](#) IEEE CNF

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